SEQUENCE LISTING

<110> Voorhis, Ronald
Schouten, Govert J.
Bout, Abraham

<120> Means and Methods for Fibroblast-Like or Macrophage-Like Cell Transduction

<130> 2183-3982.2US

<140> 09/517,898

<141> 2000-03-03

<150> 60/122,732

<151> 1999-03-03

<160> 35

<170> PatentIn version 3.1

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aattgtctta attaaccgc 19

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gggggatccg aacttgttta ttgcagc

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gggagatcta gacatgataa gatac

<210> 6
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<400> 6 27
gggagatctg tactgaaatg tgtgggc

<210> 7
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<400> 7 24
ggaggctgca gtctccaacg gcgt

<210> 8
<211> 47
<212> DNA
<213> Unknown Organism
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<400> 8 47
ctgtacgtac cagtgcactg gcctaggcat ggaaaaatac ataactg

<210> 9
<211> 64
<212> DNA
<213> Unknown Organism
<220>
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<400> 9
gcggatcctt cgaaccatgg taagcttggt accgctagcg ttaaccgggc gactcagtca 60

atcg 64

<210> 10
<211> 28
<212> DNA
<213> Unknown Organism
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<400> 10
gcgccaccat gggcagagcg atggtggc 28

<210> 11
<211> 47
<212> DNA
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<400> 11
ctgtacgtac cagtgcactg gcctaggcat ggaaaaatac ataactg 47

<210> 12
<211> 64
<212> DNA
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<220>
<223> Description of Unknown Organism: Primer HSA-2

<400> 12
gcggatcctt cgaaccatgg taagcttggt accgctagcg ttaaccgggc gactcagtca 60

atcg 64

<210> 13
<211> 50
<212> DNA
<213> Unknown Organism
<220>
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<400> 13
gttagatcta agcttgtcga catcgatcta ctaacagtag agatgtagaa 50

<210> 14
<211> 47
<212> DNA
<213> Unknown Organism
<220>
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<400> 14
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<210> 15
<211> 64
<212> DNA
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<220>
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<400> 15
gcggatcctt cgaaccatgg taagcttggt accgctagcg ttaaccgggc gactcagtca 60
atcg 64

<210> 16
<211> 10
<212> DNA
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<400> 16
ttaagtcgac 10

<210> 17
<211> 32
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<400> 17
ggggtggcca gggtacctct aggcttttgc aa 32

<210> 18
<211> 29
<212> DNA
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<400> 18
gggggatcc ataaacaagt tcagaatcc 29

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<211> 35
<212> DNA
<213> Adenovirus Serotypes

<400> 19 35
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<210> 20
<211> 27
<212> DNA
<213> Adenovirus Serotypes

<400> 20 27
cccgtctacc catatggcta cgcgcgg

<210> 21
<211> 27
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<400> 21 27
cckgtstacc catatgaaga tgaaagc

<210> 22
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<400> 22 31
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<400> 23 36
cccgtttacc catatgaccc atttgacaca tcagac

<210> 24
<211> 30
<212> DNA
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<400> 24 30
ccgatgcatt tattgttggg ctatatagga

<210> 25
<211> 30
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<400> 25 30
ccgatgcatt yattcttggg cratatagga

<210> 26
<211> 36
<212> DNA
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<400> 26 36
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<210> 27
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<210> 28
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<400> 28 30
ccgatgcatt tattgttcag ttatgtagca

<210> 29
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<400> 29 30
gccatgcatt tattgttctg ttacataaga

<210> 30
<211> 37
<212> DNA
<213> Adenovirus Serotypes

<400> 30 37
ccgttaatta agcccttatt gttctgttac ataagaa

<210> 31
<211> 30
<212> DNA
<213> Adenovirus Serotypes

<400> 31
ccgatgcatt cagtcatcyt ctwtaatata 30

<210> 32
<211> 1068
<212> DNA
<213> Adenovirus Ad5/fib16 Chimeric Fiber

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agcagctcac aacacccctt tataaaccct ggtttcattt cctcaaatgg ttttgcacaa 120

agcccagatg gagttctaac tcttaaatgt gttaatccac tcactaccgc cagcggaccc 180

ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa 240

aatataactg ccgaagcgcc actcactaaa ctaaccactc cataggttta ttaataggat 300

ctggcttgca aacaaaggat gataaacttt gtttatcgct gggagatggg ttggtaacaa 360

aggatgataa actatgttta tcgctgggag atgggttaat aacaaaaaat gatgtactat 420

gtgccaaact aggacatggc cttgtgtttg actcttccaa tgctatcacc atagaaaaca 480

acaccttgtg gacaggcgca aaaccaagcg ccaactgtgt aattaaagag ggagaagatt 540

ccccagactg taagctcact ttagttctag tgaagaatgg aggactgata aatggataca 600

taacattaat gggagcctca gaatatacta acaccttgtt taaaacaatc aagttacaat 660

cgatgtaaac ctcgcatttg ataatactgg ccaaattatt acttacctat catcccttaa 720

aagtaacctg aactttaaag acaaccaaaa catggctact ggaaccataa ccagtgccaa 780

aggcttcatg cccagcacca ccgcctatcc atttataaca tacgccactg agaccctaaa 840

tgaagattac atttatggag agtgttacta caaatctacc aatggaactc tctttccact 900

aaaagttact gtcacactaa acagacgtat gttagcttct ggaatggcct atgctatgat 960

ttttcatggt ctctaaatgc agaggaagcc ccggaaacta ccgaagtcac tctcattacc 1020

tccccttct ttttttctta tatcagagaa gatgactgaa tgcattag 1068

<210> 33
<211> 1062
<212> DNA
<213> Adenovirus Ad16 Fiber

<400> 33
atggccaaac gagctcggct aagcagctcc ttcaatccgg tctaccccta tgaagatgaa 60

agcagctcac aacacccctt tataaaccct ggtttcattt cctcaaatgg ttttgcacaa 120

agcccagatg gagttctaac tcttaaatgt gttaatccac tcactaccgc cagcggaccc 180

ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa 240

aatataactg ccgcagcgcc actcactaaa actaaccact ccataggttt attaatagga 300

tctggcttgc aaacaaagga tgataaactt tgtttatcgc tgggagatgg gttggtaaca 360

aaggatgata aactatgttt atcgctggga gatgggttaa taacaaaaaa tgatgtacta 420

tgtgccaaac taggacatgg ccttgtgttt gactcttcca atgctatcac catagaaaac 480

aacaccttgt ggacaggcgc aaaaccaagc gccaactgtg taattaaaga gggagaagat 540

tccccagact gtaagctcac tttagttcta gtgaagaatg gaggactgat aaatggatac 600

ataacattaa tgggagcctc agaatatact aacaccttgt ttaaaaacaa tcaagttaca 660

atcgatgtaa acctcgcatt tgataatact ggccaaatta ttacttacct atcatccctt 720

aaaagtaacc tgaactttaa agacaaccaa aacatggcta ctggaaccat aaccagtgcc 780

aaaggcttca tgcccagcac caccgcctat ccatttataa catacgccac tgagacccta 840

aatgaagatt acatttatgg agagtgttac tacaaatcta ccaatggaac tctctttcca 900

ctaaaagtta ctgtcacact aaacagacgt atgttagctt ctggaatggc ctatgctatg 960

aatttttcat ggtctctaaa tgcagaggaa gccccggaaa ctaccgaagt cactctcatt 1020

acctcccccc tctttttttc ttatatcaga gaagatgact ga 1062

<210> 34
<211> 353
<212> PRT
<213> Chimaeric Ad5/Fib16

<400> 34

Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
1 5 10 15

Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe
20 25 30

Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu
35 40 45

Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys
50 55 60

Val Gly Ser Ser Leu Thr Val Asp Thr Ile Asp Gly Ser Leu Glu Glu
65 70 75 80

Asn Ile Thr Ala Ala Ala Pro Leu Thr Lys Thr Asn His Ser Ile Gly
85 90 95

Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu
100 105 110

Ser Leu Glu Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser
115 120 125

Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu
130 135 140

Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn
145 150 155 160

Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys
165 170 175

Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys
180 185 190

Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu
195 200 205

Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn
210 215 220

Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu
225 230 235 240

Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr
245 250 255

Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe
260 265 270

Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu
275 280 285

Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr
290 295 300

Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met
305 310 315 320

Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu
325 330 335

Val Thr Leu Ile Thr Ser Pro Phe Phe Phe Ser Tyr Ile Arg Glu Asp
340 345 350

Asp

<210> 35
<211> 353
<212> PRT
<213> Adenovirus Ad16/Fiber

<400> 35

Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
1 5 10 15

Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe
20 25 30

Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu
35 40 45

Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys
50 55 60

Val Gly Ser Ser Leu Thr Val Asp Thr Ile Asp Gly Ser Leu Glu Glu
65 70 75 80

Asn Ile Thr Ala Ala Ala Pro Leu Thr Lys Thr Asn His Ser Ile Gly
85 90 95

Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu
100 105 110

Ser Leu Glu Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser
115 120 125

Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu
130 135 140

Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn
145 150 155 160

Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys
165 170 175

Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys
180 185 190

Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu
195 200 205

Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn
210 215 220

Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu
225 230 235 240

Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr
245 250 255

Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe
260 265 270

Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu
275 280 285

Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr
290 295 300

Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met
305 310 315 320

Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu
325 330 335

Val Thr Leu Ile Thr Ser Pro Phe Phe Phe Ser Tyr Ile Arg Glu Asp
340 345 350

Asp